

## ABSTRACT

Methods and apparatus, including computer program products, for representing hierarchical list data. One method involves receiving a first list comprising an element A1 and an element A2, the element A2 comprising a first nested list comprising an element N1 and an element N2; receiving a second list comprising an element B1 and an element B2, the element B2 comprising a second nested list comprising an element M1 and an element M2; storing the elements A1 and B1 in a first array; and storing the elements A2 and B2 in a second array, the second array comprising a first sub-array to store the elements N1 and M1, and a second sub-array to store the N2 and M2.

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